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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,665	07/15/2003	Sung-Jac Moon	YOM-0038	7173
DAVID A. FO	7590 07/09/2007 X		EXAMINER	
55 Griffin Sout	h Road		DUDEK, JAMES A	
Bloomfield, CT 06002			ART UNIT	PAPER NUMBER
			2871	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/619,665	MOON, SUNG-JAE
Office Action Summary	Examiner	Art Unit
	James A. Dudek	2871
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MOI e, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This action is application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal mat	-
Disposition of Claims	•	
4) Claim(s) 1-6,8,9 and 11-13 is/are pending in the 4a) Of the above claim(s) 13 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1-6,8,9,11 and 12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or and pers 9) The specification is objected to by the Examin 10) The drawing(s) filed on 15 July 2003 is/are: a Applicant may not request that any objection to the	from consideration. or election requirement. er.)□ accepted or b)□ object	
Replacement drawing sheet(s) including the correct		
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. Its have been received in Apprintly documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/18/07.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application

Art Unit: 2871

DETAILED ACTION

Claim Objections

Claim 11 is objected to because of the following informalities: depends on canceled claim 10. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2, 9 and 11-12 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by US 6624857 B1 (857).

Per claims 1-2, 857 teaches the liquid crystal display comprising:

TFT array [shown in figure 4, the region where the scan and data lines 2 and 3 cross] including a plurality of first display signal lines [gate lines 2], a plurality of second display signal lines crossing the first display signal lines [data lines 3], a plurality of switching elements connected to the first display signal lines and the second display signal lines [transistors at the cross points of the gate and data lines shown in figure], a plurality of pixel electrodes connected to the switching elements [pixel 14];

an inspection line formed on the TFT array panel for receiving the test signals to the second display signal lines [lines 21a-21b and 22a-22b], and

a test pad formed on the TFT array panel and connected to the inspection line for receiving a test signal [32a-32b and 39a-39b], wherein the test pad is disposed between the driver and an edge of the TFT array panel [see figure 4]

wherein the inspection line is separated from the first and second display signal lines, the switching elements, and the pixel electrodes [the TFT 26b provide the separation, that is the

Application/Control Number: 10/619,665

Art Unit: 2871

source is connected to the inspection lines and the drain is connected to the data lines, these two lines are separated with the semiconductor between them], and

the inspection line and second display signal lines are electrically separated [see column 8, lines 15-21, when the inspection TFT is switch off, an electrical separation is created between the second signal line the inspection lines].

Per claim 9, see the last paragraph of column 25.

Per claims 11-12, 857 teaches the liquid crystal display of claim 10, further comprising a connecting member including the same layer as the pixel electrodes, wherein the connecting member is connected to at least one of the at least one inspection line and the second display signal line [see description of embodiments one and two]

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over 857 in view of US 6424400 B1 (400).

Per claim 4-6 and 8-9, 857 teaches the liquid crystal display of claim 3, but lacks a plurality of straight connecting lines interconnecting chip drivers [see line 13] wherein the test pad is closer to an edge of the liquid crystal panel than to the connecting lines and a plurality of flexible printed circuit films attached to the liquid crystal panel, wherein the external devices are the flexible printed circuit films. However, 400 teaches each of these limitations as shown in figure 8 with chip drivers 3, tabs 11 and extending lines 10. 400 teaches that liquid crystal cells benefit from this structure with increased image quality. See column 2, 8th paragraph. Accordingly, it would have been obvious to one of ordinary skill at the time of invention to combine the chip extending lines and tabs of 400 with 857 to improve image quality.

Application/Control Number: 10/619,665

Art Unit: 2871

Response to Arguments

Any arguments are moot due to new grounds of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Dudek whose telephone number is 571-272-2290. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866 217-9197 (toll-free).

James A. Dudek Primary Examiner Art Unit 2871 Page 4